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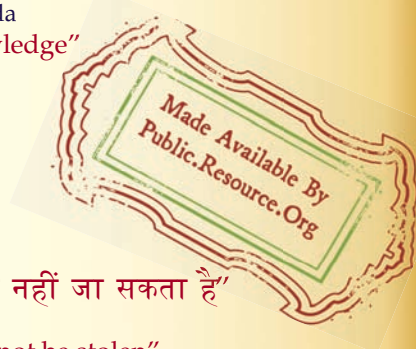
IS 2779 (1980): Potassium Chloride (Muriate of Potash),
Fertilizer Grade [FAD 7: Soil Quality and Gertilizers]



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Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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(Reaffirmed ~~2000~~)
2010

Indian Standard

SPECIFICATION FOR POTASSIUM CHLORIDE (MURIATE OF POTASH), FERTILIZER GRADE

(First Revision)

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**BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002**

Indian Standard

SPECIFICATION FOR POTASSIUM CHLORIDE (MURIATE OF POTASH), FERTILIZER GRADE (*First Revision*)

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*Shri V. R. R. Gupta was Chairman for the meeting in which this standard was finalised.

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**AMENDMENT NO. 1 NOVEMBER 2000
TO
IS 2779 :1980 SPECIFICATION FOR POTASSIUM
CHLORIDE (MURIATE OF POTASH), FERTILIZER
GRADE**

(First Revision)

(Page 4, clause 2.2) — Substitute the following for the existing clause:

'2.2 Particle Size — Minimum 65 percent of the material shall pass the 1.7 mm IS sieve and shall be retained on 0.25 mm IS sieve.'

(PCD 20)

Reprography Unit, BIS, New Delhi, India

**AMENDMENT NO. 2 MAY 2012
TO
IS 2779 : 1980 SPECIFICATION FOR POTASSIUM
CHLORIDE (MURIATE OF POTASH),
FERTILIZER GRADE**

(*First Revision*)

[Page 5, *clause 3.2(d)*] — Substitute ‘Gross and net quantity in kg.’ for
‘Gross and net mass in kg.’.

(FAD 7)

Reprography Unit, BIS, New Delhi, India

Indian Standard

SPECIFICATION FOR POTASSIUM
CHLORIDE (MURIATE OF POTASH),
FERTILIZER GRADE

(*First Revision*)

0. FOREWORD

0.1 This Indian Standard (First Revision) was adopted by the Indian Standards Institution on 29 February 1980, after the draft finalized by the Fertilizers Sectional Committee had been approved by the Petroleum, Coal and Related Products Division Council.

0.2 This standard was originally published in 1964. In the present revision, the potash content has been raised from 58.0 to 60.0 percent. Further, since separate standards on methods of sampling and test for fertilizers have been published, those details have, therefore, been deleted from this standard.

0.3 In the preparation of this standard, consideration has been given to the need for maintaining co-ordination with the specification of the Fertilizer (Control) Order, 1957 and the Essential Commodities Act, 1955 of Government of India. However, this standard is subject to the provisions imposed under this Order wherever applicable.

0.4 For particle size, the use of IS sieves conforming to IS : 460-1962* is prescribed. Where IS sieves are not available, other standard sieves as judged from aperture size may be used.

0.5 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS : 2-1960†. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

*Specification for test sieves (*revised*).

†Rules for rounding off numerical values (*revised*).

IS : 2779 - 1980

1. SCOPE

1.1 This standard prescribes the requirements and the methods of sampling and test for potassium chloride (muriate of potash), fertilizer grade.

2. REQUIREMENTS

2.1 Description — The material shall be crystalline, white or light grey or pinkish in colour and free from visible contamination with clay and grit.

2.2 Particle Size — The particle size of the material shall not be less than 0.25 mm, that is 95 percent of the material shall be retained over 250-micron IS sieve.

2.3 The material shall also comply with the requirements given in Table 1.

**TABLE 1 REQUIREMENTS FOR POTASSIUM CHLORIDE,
(MURIATE OF POTASH), FERTILIZER GRADE**

Sl. No.	CHARACTERISTIC	REQUIREMENT	METHOD OF TEST, REF TO PART AND CL No. IN IS : 6092-1971*
(1)	(2)	(3)	(4)
i)	†Potash content (as K_2O), percent by mass, <i>Min</i>	60.0	5 of Part IV
ii)	Moisture, percent by mass, <i>Max</i>	0.5	5.1 of Part VI
iii)	Sodium (as NaCl), percent by mass, <i>Max</i>	3.5	11 of Part VI

*Methods of sampling and test for fertilizers:

Part IV Determination of potassium.

Part VI Determination of impurities.

†A tolerance limit 0.2 unit of nutrient shall be permissible.

3. PACKING AND MARKING

3.1 Packing — The material shall be packed as agreed to between the purchaser and the supplier. Each bag shall be securely closed.

3.2 Marking — Each bag shall bear legibly and indelibly the following information:

- Name of the fertilizer;
- Name of the manufacturer and his recognized trade-mark, if any;

- c) Percentage of potassium by mass; and
- d) Gross and net mass in kg.

3.2.1 The packages may also be marked with the Standard Mark.

NOTE — The use of the Standard Mark is governed by the provisions of the Bureau of Indian Standards Act, 1986 and the Rules and Regulations made thereunder. The Standard Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well defined system of inspection, testing and quality control which is devised and supervised by BIS and operated by the producer. Standard marked products are also continuously checked by BIS for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the Standard Mark may be granted to manufacturers or producers may be obtained from the Bureau of Indian Standards.

4. SAMPLING

4.1 Representative test samples of the material shall be drawn as prescribed in IS : 6092 (Part I)-1971*.

4.2 Criteria for Conformity — For declaring the conformity of the lot to the requirements of this specification, the test results on the composite sample shall satisfy all the requirements specified under 2.

5. TEST METHODS

5.1 Tests for the requirements listed under 2 shall be carried out according to the methods prescribed in IS : 6092 (Part IV)-1971* and IS : 6092 (Part VI)-1971*. Reference to relevant parts and clauses is given in 4 of Table 1.

*Methods of sampling and test for fertilizers:

- Part I Sampling,
- Part IV Determination of potassium.
- Part VI Determination of impurities.